

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071922\
 Data File : VW023936.D
 Acq On : 20 Jul 2022 14:39
 Operator : SY/VA
 Sample : N3744-13
 Misc : 6.30g/10mL/MSVOA_W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 F5C99

Quant Time: Jul 20 23:09:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM071322SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Jul 20 06:30:31 2022
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	3914	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.628	117	3531	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	870	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.337	65	2787	27.879	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 111.520%	
7) Chloroethane-d5	2.898	69	2572	38.567	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	= 154.280%#	
11) 1,1-Dichloroethene-d2	4.025	63	3883	47.701	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	= 190.800%#	
21) 2-Butanone-d5	7.092	46	1624	104.734	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	= 209.460%#	
24) Chloroform-d	7.653	84	4330	37.998	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	= 152.000%#	
26) 1,2-Dichloroethane-d4	8.311	65	3044	43.676	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	= 174.720%#	
32) Benzene-d6	8.281	84	8223	44.799	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	= 179.200%#	
36) 1,2-Dichloropropane-d6	9.281	67	2311	41.798	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	= 167.200%#	
41) Toluene-d8	10.329	98	4301	23.101	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	= 92.400%	
43) trans-1,3-Dichloroprop...	10.585	79	654	25.235	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	= 100.960%	
47) 2-Hexanone-d5	10.945	63	84	7.225	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	= 14.460%#	
56) 1,1,2,2-Tetrachloroeth...	12.689	84	2056	33.649	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 134.600%#	
66) 1,2-Dichlorobenzene-d4	13.853	152	745	23.988	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	= 95.960%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.221	85	42	1.579	ug/L	# 1
12) 1,1-Dichloroethene	4.086	96	56	1.350	ug/L	# 1
13) Acetone	4.166	43	111	10.125	ug/L	70
15) Methyl Acetate	4.672	43	76	3.098	ug/L	92
16) Methylene chloride	4.922	84	542	8.856	ug/L	80
17) trans-1,2-Dichloroethene	5.403	96	45	0.894	ug/L	# 1
19) 1,1-Dichloroethane	6.196	63	64	0.689	ug/L	# 49
20) cis-1,2-Dichloroethene	7.226	96	42	0.753	ug/L	# 1
22) 2-Butanone	6.964	43	175	9.713	ug/L	89
27) 1,2-Dichloroethane	8.421	62	112	1.423	ug/L	# 75
29) Cyclohexane	7.897	56	93	1.440	ug/L	# 22
30) 1,1,1-Trichloroethane	7.598	97	45	0.589	ug/L	# 19
31) Carbon tetrachloride	8.000	117	48	0.696	ug/L	# 2
33) Benzene	8.336	78	659	3.284	ug/L	100
34) Trichloroethene	9.092	95	115	2.170	ug/L	# 47
35) Methylcyclohexane	9.366	83	95	1.177	ug/L	# 33
37) 1,2-Dichloropropane	9.372	63	89	1.769	ug/L	# 38
38) Bromodichloromethane	9.567	83	39	0.555	ug/L	# 24
39) cis-1,3-Dichloropropene	9.902	75	88	1.161	ug/L	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

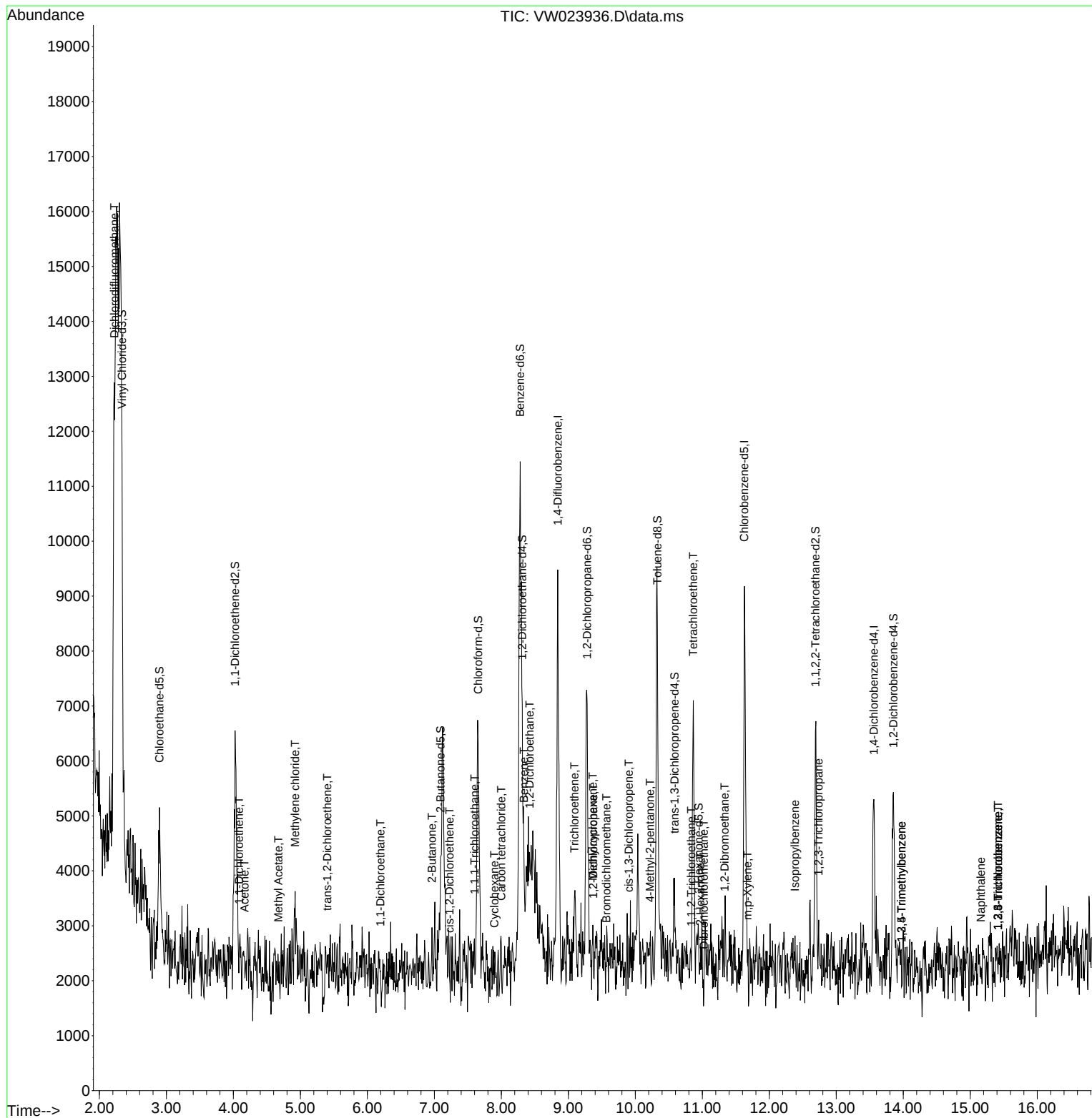
40) 4-Methyl-2-pentanone	10.219	43	192	5.485	ug/L #	64
45) 1,1,2-Trichloroethane	10.835	97	56	1.273	ug/L #	15
46) Tetrachloroethene	10.866	164	1088	26.555	ug/L #	47
48) 2-Hexanone	10.969	43	136	5.336	ug/L #	40
49) Dibromochloromethane	11.024	129	42	0.823	ug/L #	11
50) 1,2-Dibromoethane	11.335	107	44	1.041	ug/L #	8
53) m,p-Xylene	11.677	106	61	0.601	ug/L #	1
60) Isopropylbenzene	12.384	105	62	0.531	ug/L #	41
61) 1,2,3-Trichloropropane	12.737	75	60	3.145	ug/L #	1
62) 1,3,5-Trimethylbenzene	13.975	105	46	0.481	ug/L	93
63) 1,2,4-Trimethylbenzene	13.975	105	46	0.481	ug/L	99
69) 1,3,5-Trichlorobenzene	15.414	180	43	1.224	ug/L #	31
70) 1,2,4-trichlorobenzene	15.414	180	43	1.586	ug/L #	20
71) Naphthalene	15.158	128	47	0.808	ug/L #	1
72) 1,2,3-Trichlorobenzene	15.414	180	43	1.701	ug/L #	35

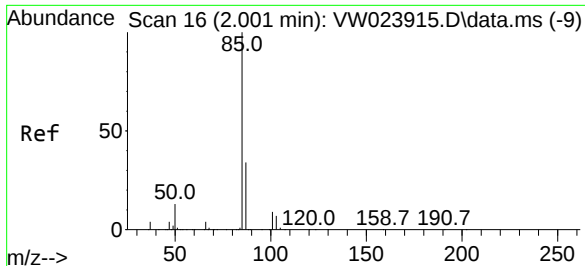
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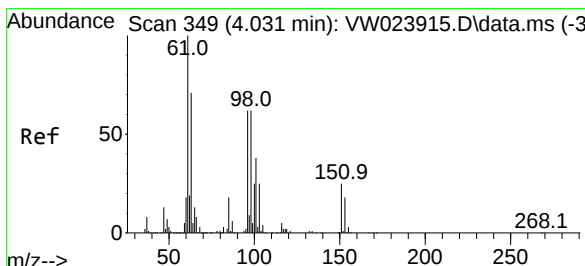
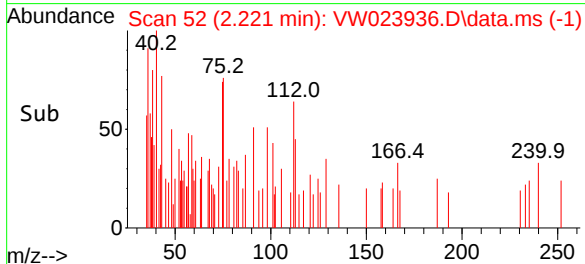
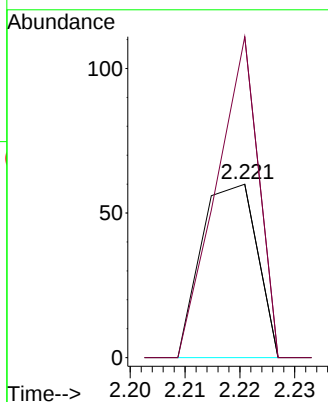
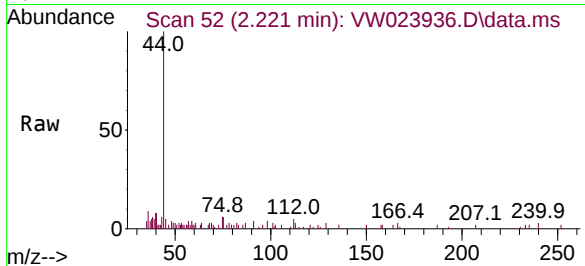




#2
 Dichlorodifluoromethane
 Concen: 1.579 ug/L
 RT: 2.221 min Scan# 51
 Delta R.T. 0.220 min
 Lab File: VW023936.D
 Acq: 20 Jul 2022 14:39

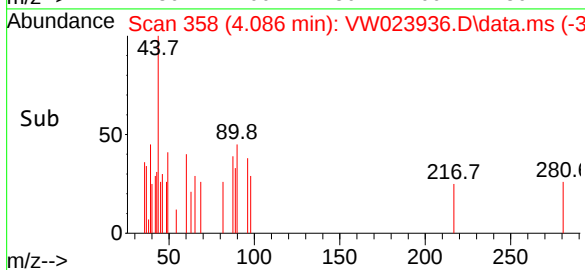
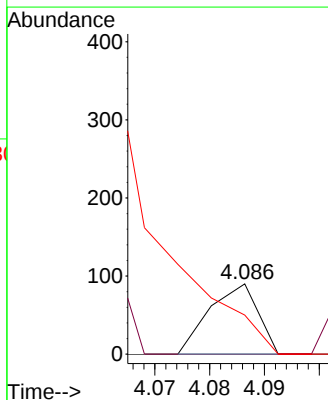
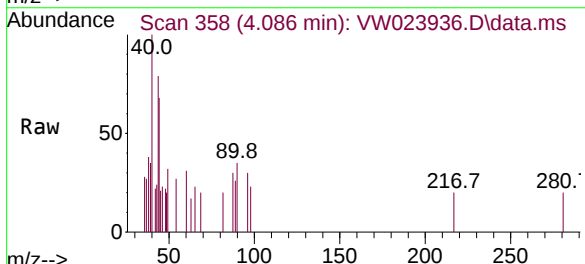
Instrument :
 MSVOA_W
 ClientSampleId :
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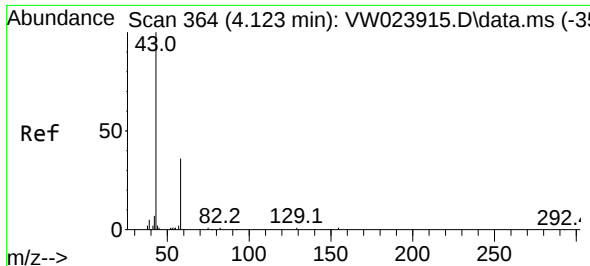
Tgt Ion: 85 Resp: 42
 Ion Ratio Lower Upper
 85 100
 87 140.5 24.7 37.1#



#12
 1,1-Dichloroethene
 Concen: 1.350 ug/L
 RT: 4.086 min Scan# 358
 Delta R.T. 0.055 min
 Lab File: VW023936.D
 Acq: 20 Jul 2022 14:39

Tgt Ion: 96 Resp: 56
 Ion Ratio Lower Upper
 96 100
 61 0.0 125.4 232.8#
 63 55.6 97.4 180.8#

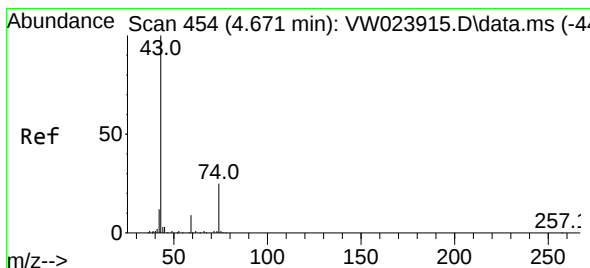
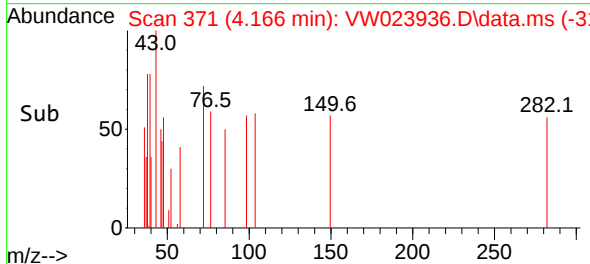
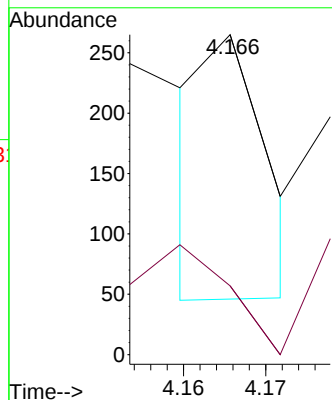
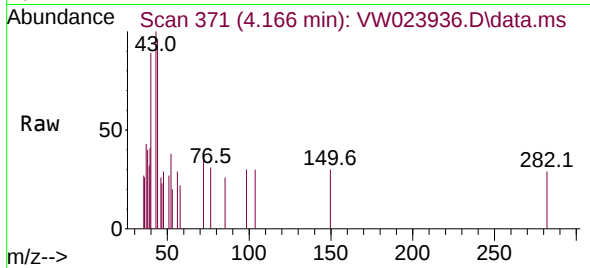




#13
Acetone
Concen: 10.125 ug/L
RT: 4.166 min Scan# 371
Delta R.T. 0.043 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

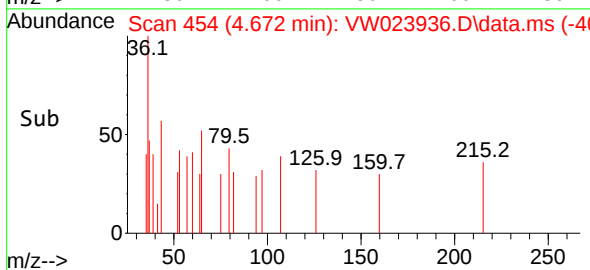
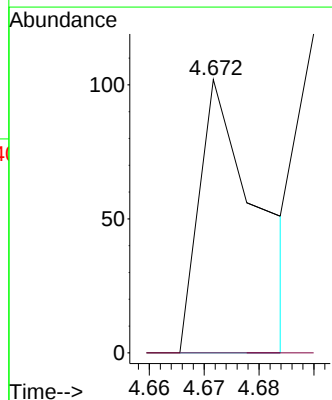
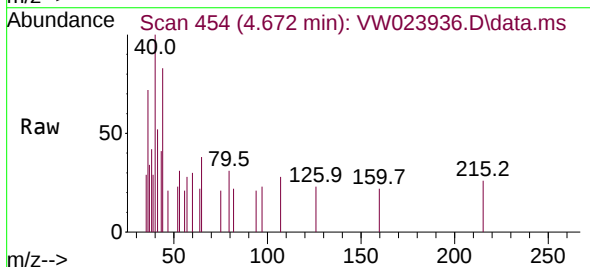
Instrument :
MSVOA_W
ClientSampleId :
F5C99

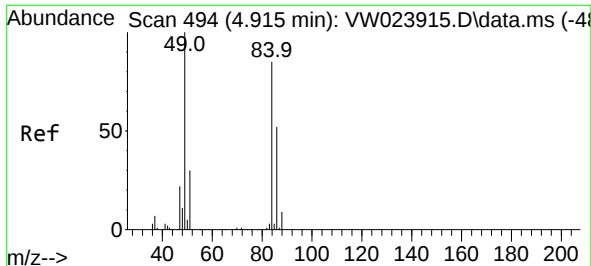
Tgt Ion: 43 Resp: 111
Ion Ratio Lower Upper
43 100
58 48.6 0.0 64.2



#15
Methyl Acetate
Concen: 3.098 ug/L
RT: 4.672 min Scan# 454
Delta R.T. 0.000 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
74 28.9 20.0 30.0

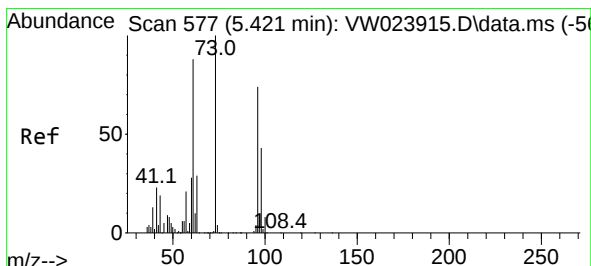
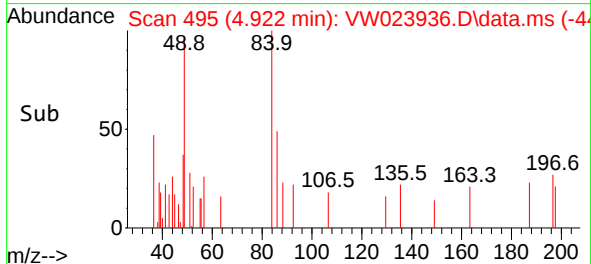
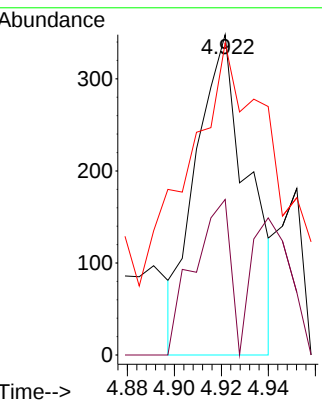
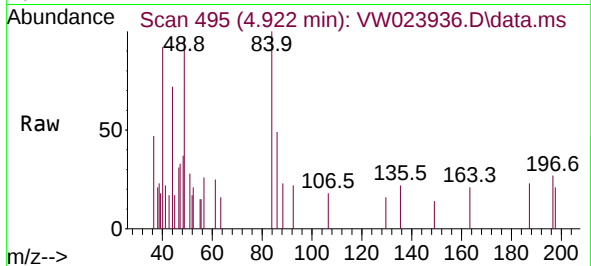




#16
Methylene chloride
Concen: 8.856 ug/L
RT: 4.922 min Scan# 494
Delta R.T. 0.006 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

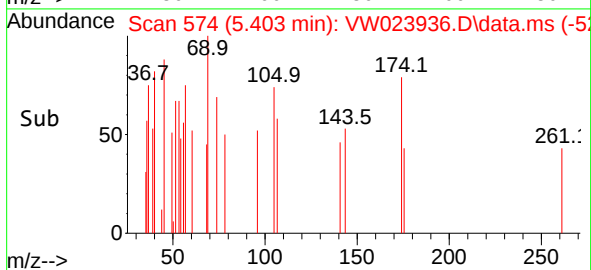
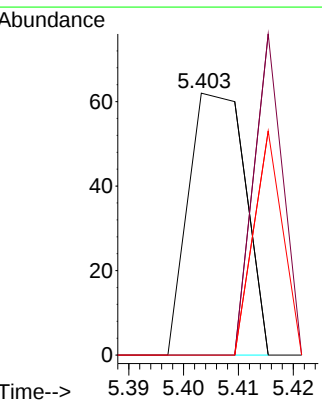
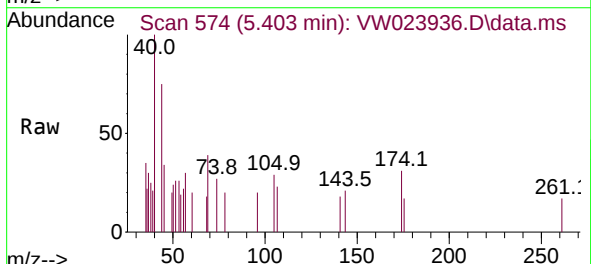
Instrument :
MSVOA_W
ClientSampleId :
F5C99

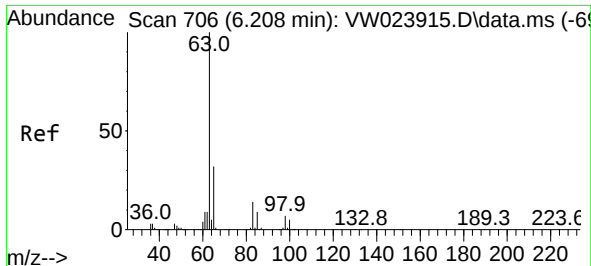
Tgt Ion: 84	Resp: 542
Ion Ratio	Lower Upper
84 100	
86 48.6	42.8 79.6
49 97.4	85.4 158.6



#17
trans-1,2-Dichloroethene
Concen: 0.894 ug/L
RT: 5.403 min Scan# 574
Delta R.T. -0.018 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion: 96	Resp: 45
Ion Ratio	Lower Upper
96 100	
61 0.0	90.8 168.6#
98 0.0	42.8 79.6#





#19

1,1-Dichloroethane

Concen: 0.689 ug/L

RT: 6.196 min Scan# 706

Delta R.T. -0.012 min

Lab File: VW023936.D

Acq: 20 Jul 2022 14:39

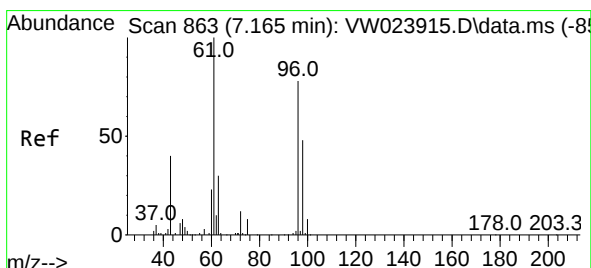
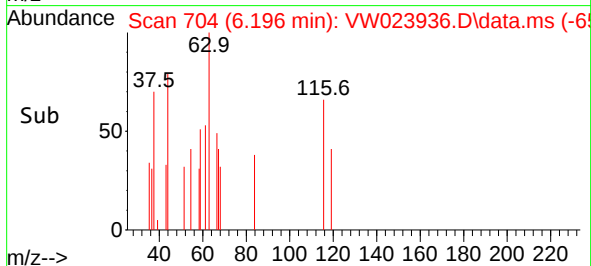
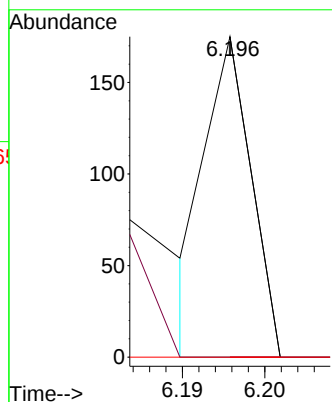
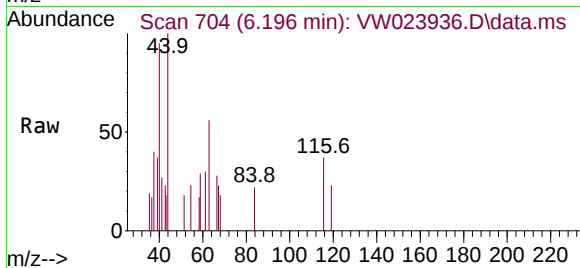
Instrument :

MSVOA_W

ClientSampleId :

F5C99

Tgt Ion: 63	Resp: 64
Ion Ratio	Lower Upper
63 100	
65 0.0	22.7 42.1#
83 0.0	9.7 18.1#



#20

cis-1,2-Dichloroethene

Concen: 0.753 ug/L

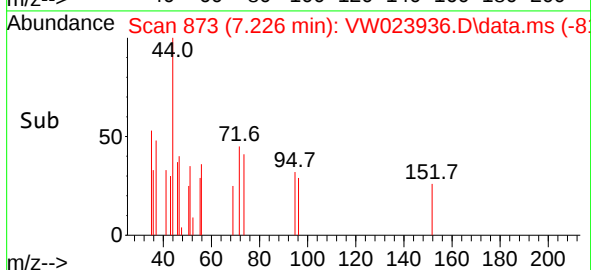
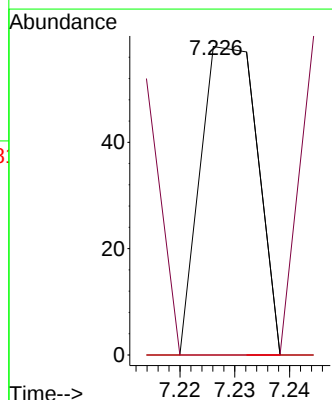
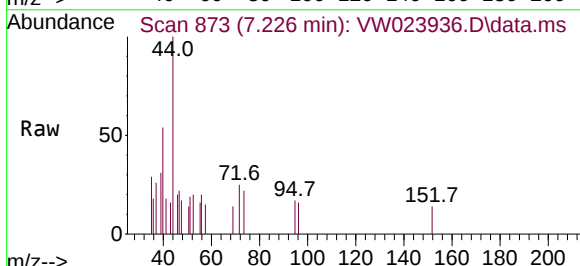
RT: 7.226 min Scan# 873

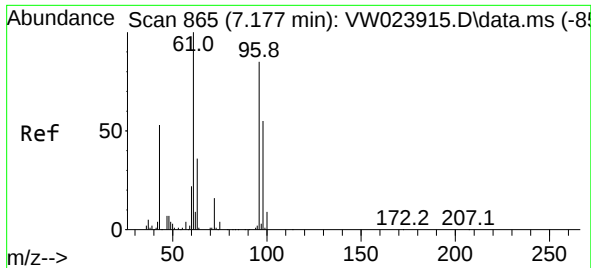
Delta R.T. 0.061 min

Lab File: VW023936.D

Acq: 20 Jul 2022 14:39

Tgt Ion: 96	Resp: 42
Ion Ratio	Lower Upper
96 100	
61 0.0	90.6 168.2#
68 0.0	0.2 0.4#

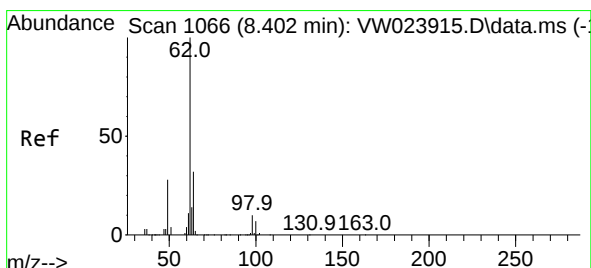
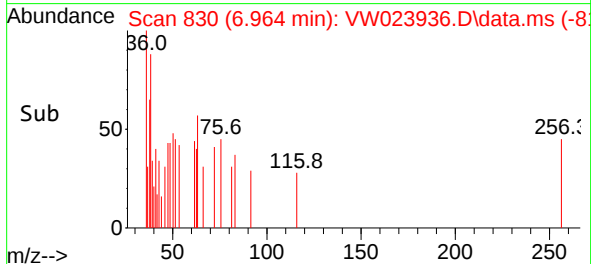
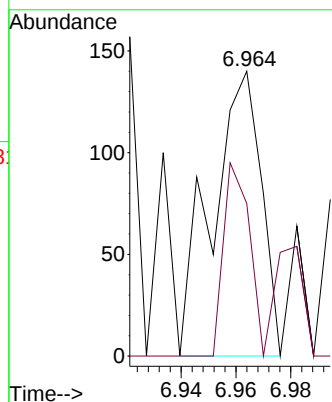
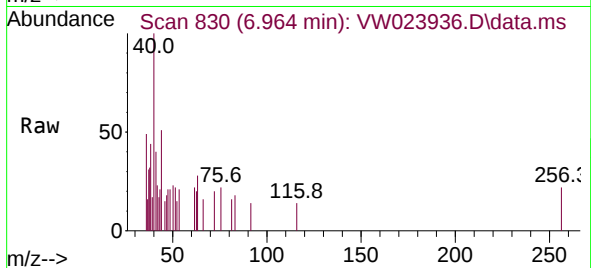




#22
2-Butanone
Concen: 9.713 ug/L
RT: 6.964 min Scan# 81
Delta R.T. -0.213 min
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Acq: 20 Jul 2022 14:39

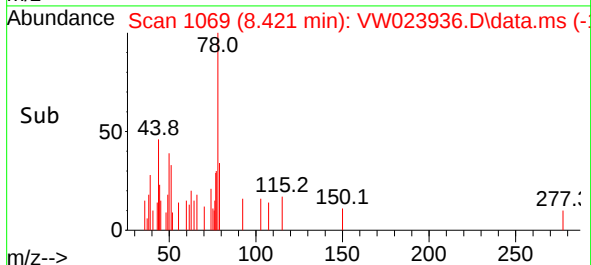
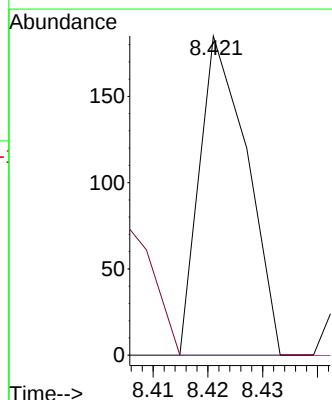
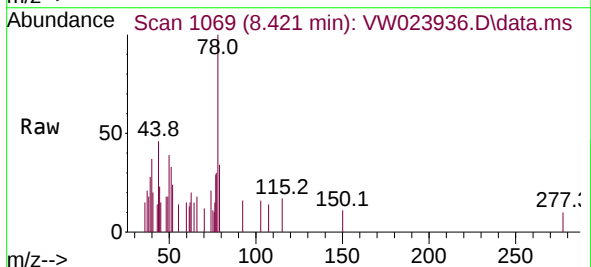
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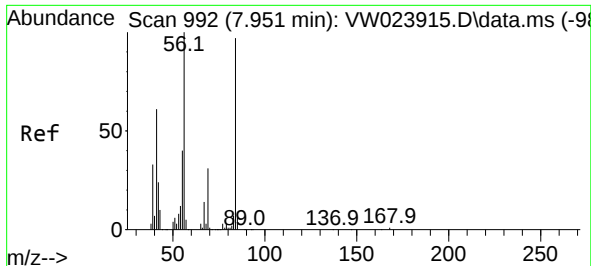
Tgt Ion: 43 Resp: 175
Ion Ratio Lower Upper
43 100
72 35.4 14.7 44.1



#27
1,2-Dichloroethane
Concen: 1.423 ug/L
RT: 8.421 min Scan# 1069
Delta R.T. 0.019 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion: 62 Resp: 112
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#





#29

Cyclohexane

Concen: 1.440 ug/L

RT: 7.897 min Scan# 91

Delta R.T. -0.055 min

Lab File: VW023936.D

Acq: 20 Jul 2022 14:39

Instrument :

MSVOA_W

ClientSampleId :

F5C99

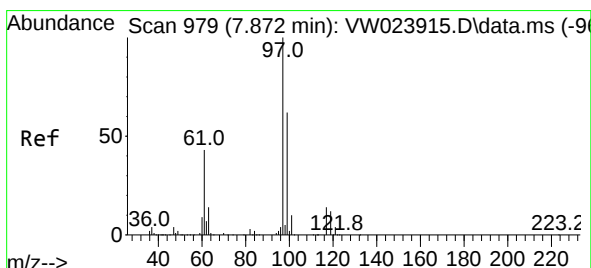
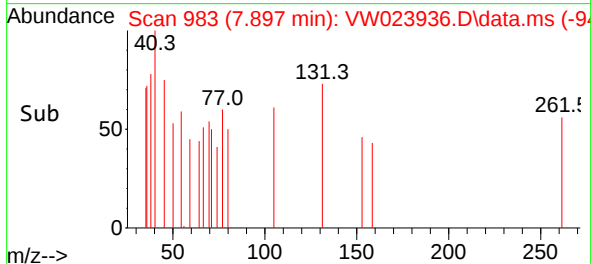
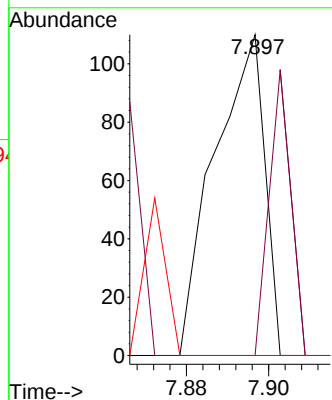
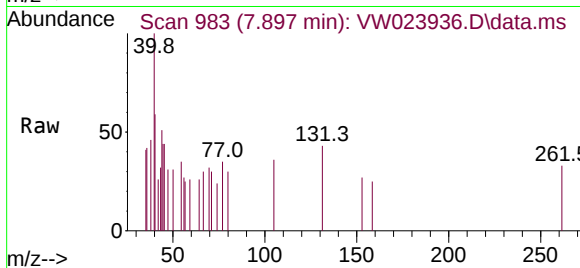
Tgt Ion: 56 Resp: 93

Ion Ratio Lower Upper

56 100

69 20.4 25.4 38.0#

84 0.0 75.0 112.4#



#30

1,1,1-Trichloroethane

Concen: 0.589 ug/L

RT: 7.598 min Scan# 934

Delta R.T. -0.274 min

Lab File: VW023936.D

Acq: 20 Jul 2022 14:39

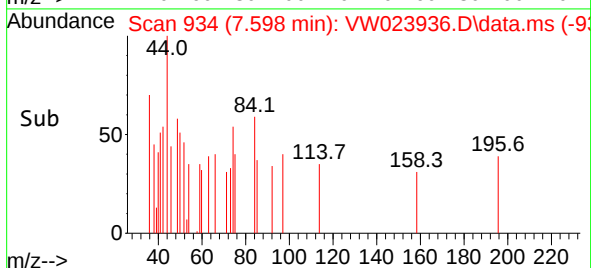
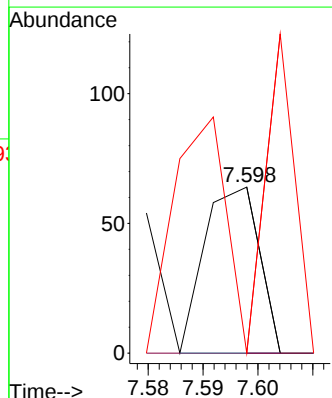
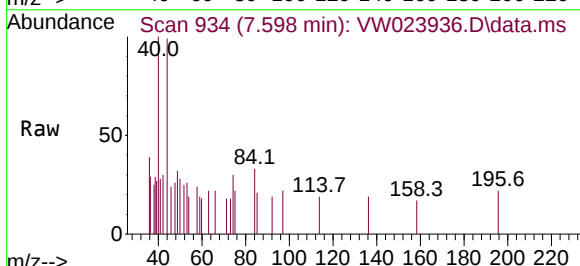
Tgt Ion: 97 Resp: 45

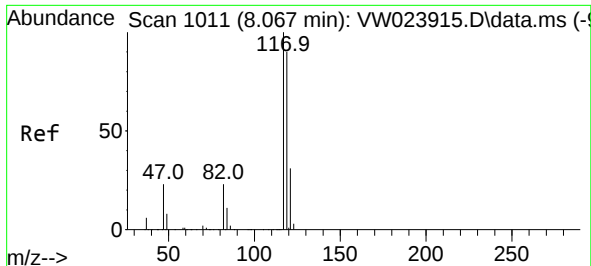
Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.6#

61 100.0 37.5 56.3#

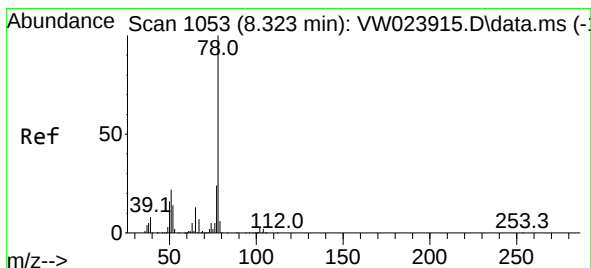
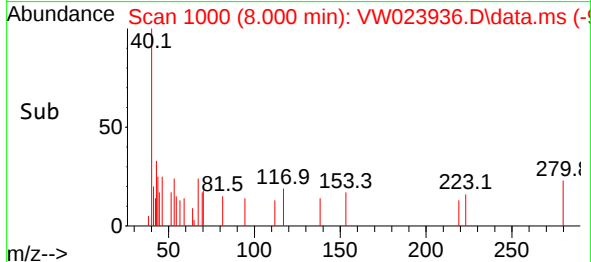
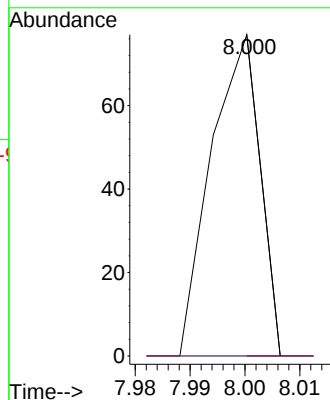
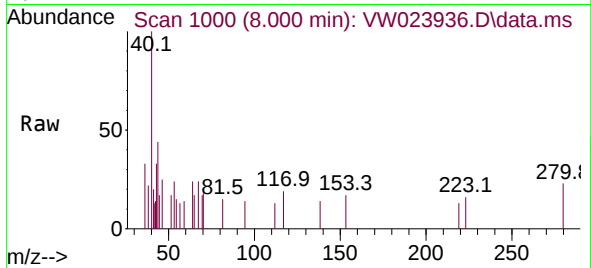




#31
Carbon tetrachloride
Concen: 0.696 ug/L
RT: 8.000 min Scan# 1011
Delta R.T. -0.067 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

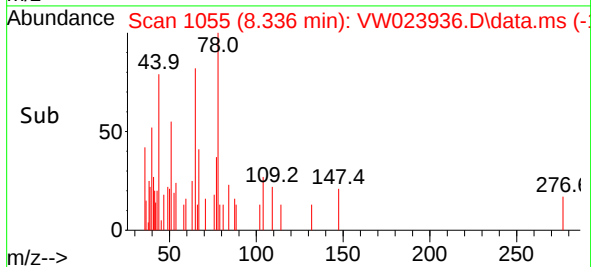
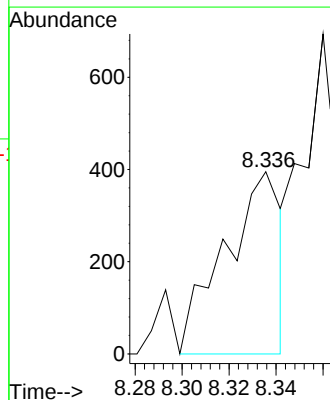
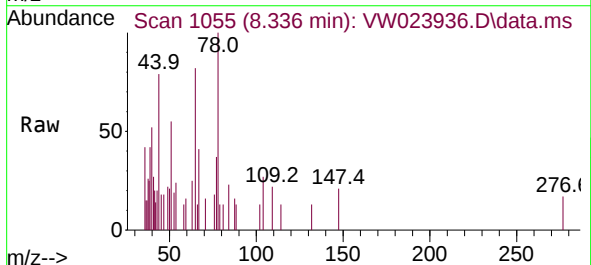
Instrument :
MSVOA_W
ClientSampleId :
F5C99

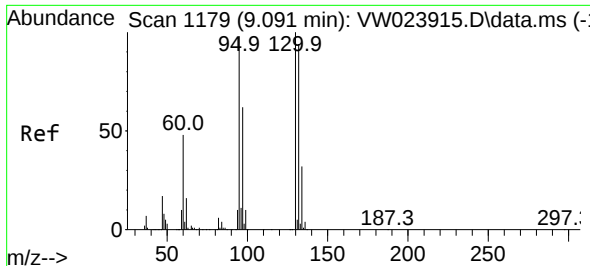
Tgt Ion:117 Resp: 48
Ion Ratio Lower Upper
117 100
119 0.0 75.7 113.5#



#33
Benzene
Concen: 3.284 ug/L
RT: 8.336 min Scan# 1055
Delta R.T. 0.012 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion: 78 Resp: 659

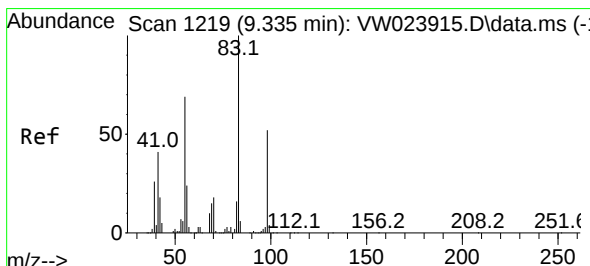
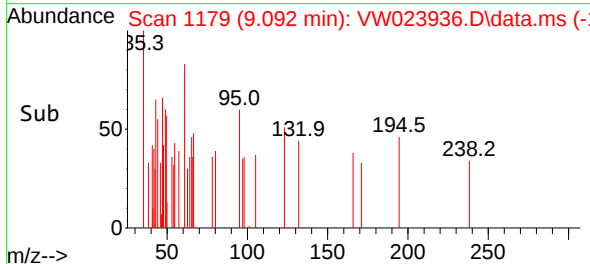
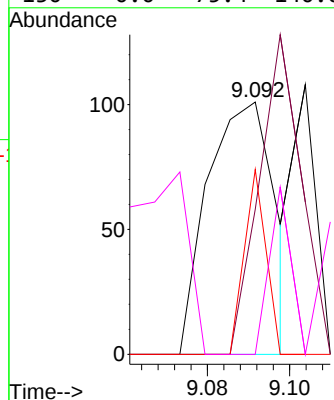
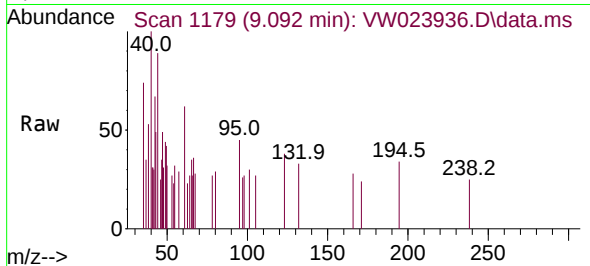




#34
Trichloroethene
Concen: 2.170 ug/L
RT: 9.092 min Scan# 1179
Delta R.T. 0.000 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

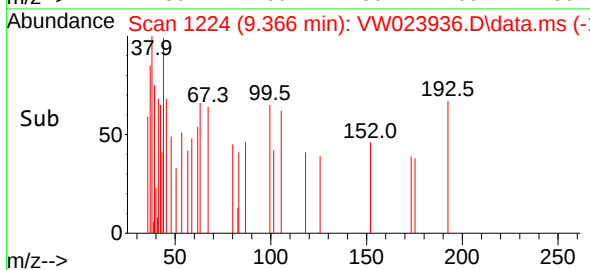
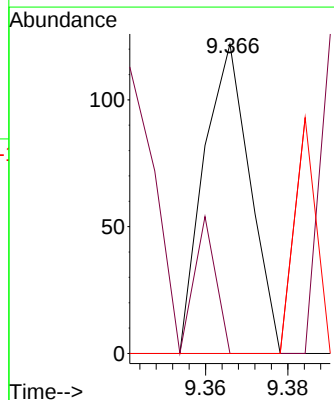
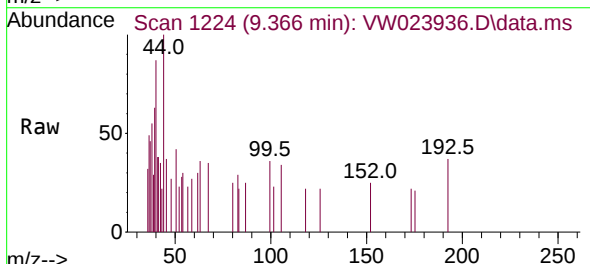
Instrument :
MSVOA_W
ClientSampleId :
F5C99

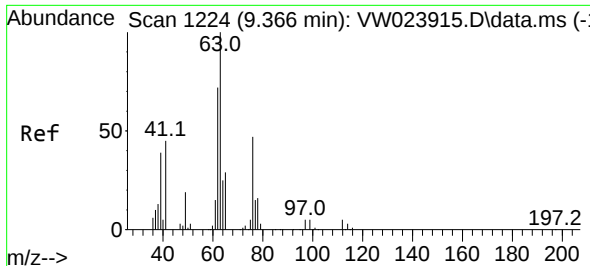
Tgt Ion:	95	Resp:	115
Ion	Ratio	Lower	Upper
95	100		
97	57.4	45.6	84.8
132	73.3	69.9	129.7
130	0.0	75.4	140.0#



#35
Methylcyclohexane
Concen: 1.177 ug/L
RT: 9.366 min Scan# 1224
Delta R.T. 0.031 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion:	83	Resp:	95
Ion	Ratio	Lower	Upper
83	100		
55	21.1	60.8	91.2#
98	0.0	39.5	59.3#





#37

1,2-Dichloropropane

Concen: 1.769 ug/L

RT: 9.372 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW023936.D

Acq: 20 Jul 2022 14:39

Instrument :

MSVOA_W

ClientSampleId :

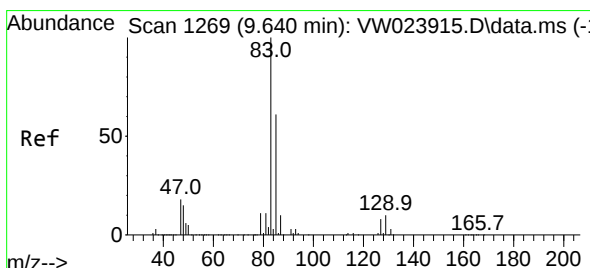
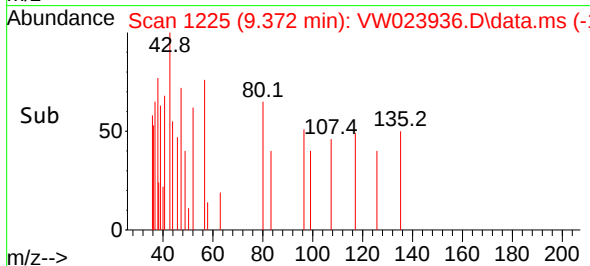
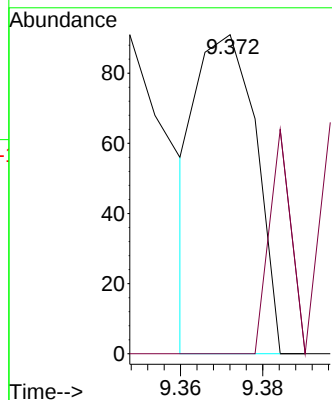
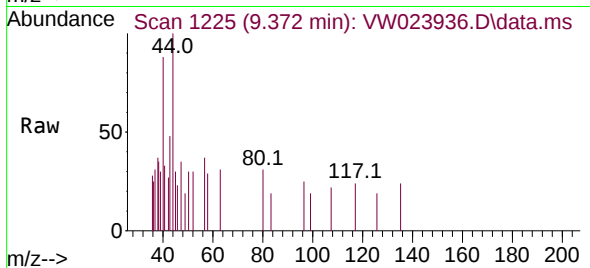
F5C99

Tgt Ion: 63 Resp: 89

Ion Ratio Lower Upper

63 100

112 25.8 4.2 6.2#



#38

Bromodichloromethane

Concen: 0.555 ug/L

RT: 9.567 min Scan# 1257

Delta R.T. -0.073 min

Lab File: VW023936.D

Acq: 20 Jul 2022 14:39

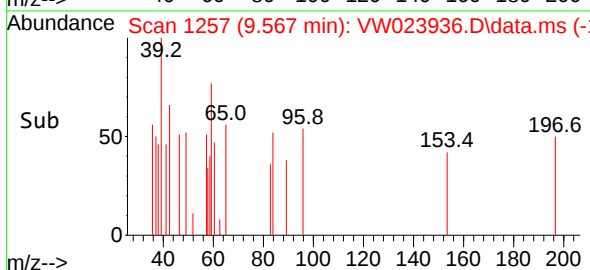
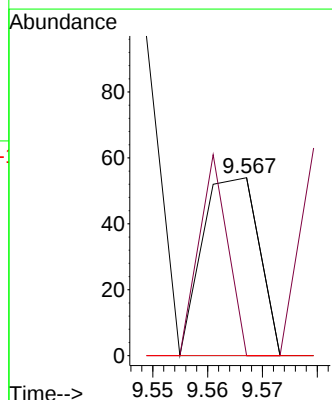
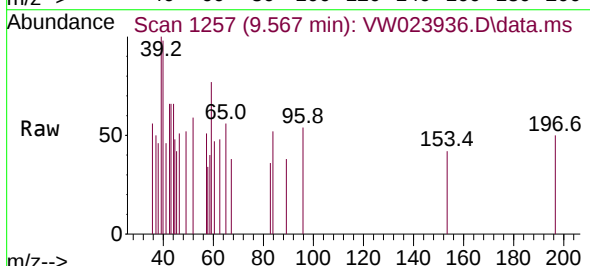
Tgt Ion: 83 Resp: 39

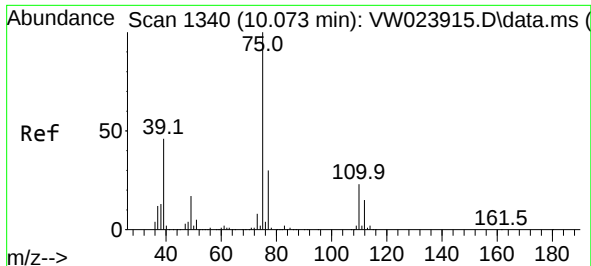
Ion Ratio Lower Upper

83 100

85 0.0 45.5 84.5#

127 0.0 6.0 9.0#

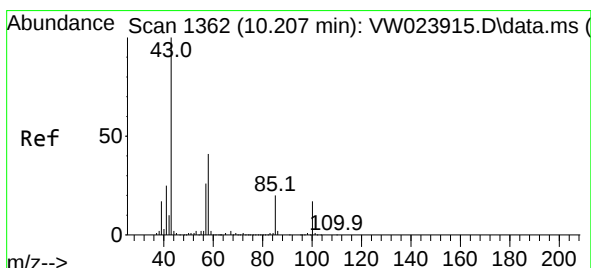
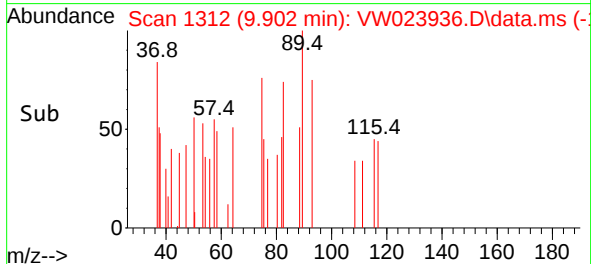
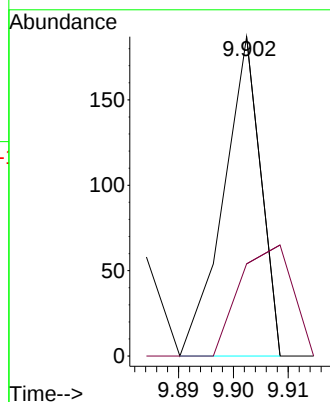
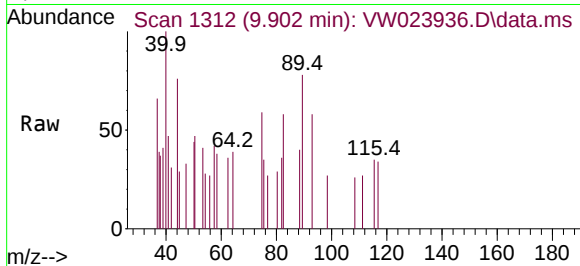




#39
cis-1,3-Dichloropropene
Concen: 1.161 ug/L
RT: 9.902 min Scan# 11
Delta R.T. -0.170 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

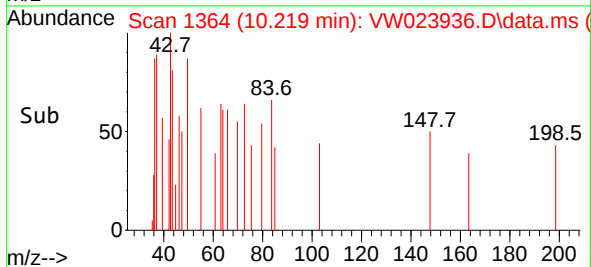
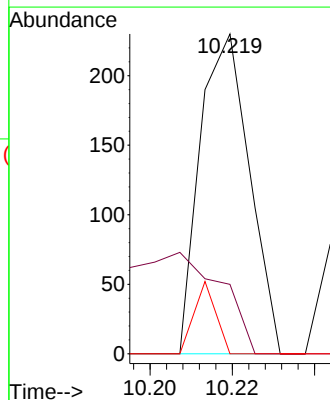
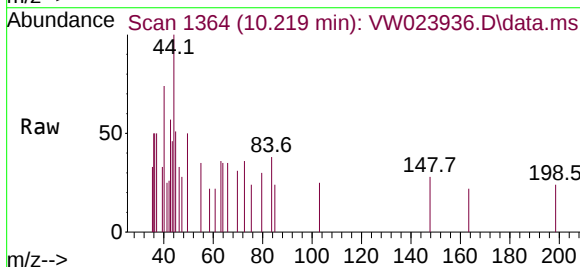
Instrument :
MSVOA_W
ClientSampleId :
F5C99

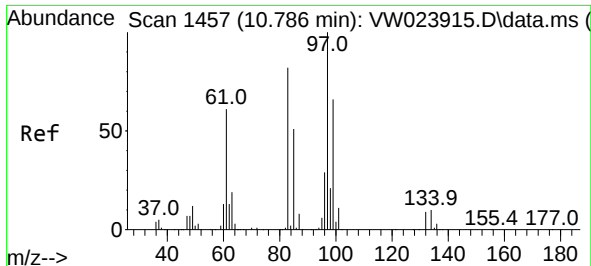
Tgt Ion: 75 Resp: 88
Ion Ratio Lower Upper
75 100
77 28.9 22.5 41.9



#40
4-Methyl-2-pentanone
Concen: 5.485 ug/L
RT: 10.219 min Scan# 1364
Delta R.T. 0.012 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
58 58.3 29.8 44.8#
100 0.0 13.0 19.4#

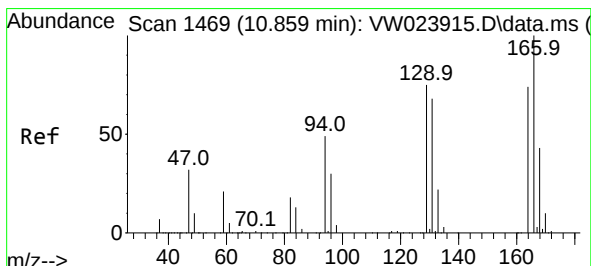
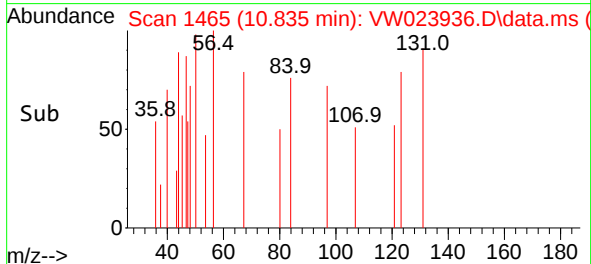
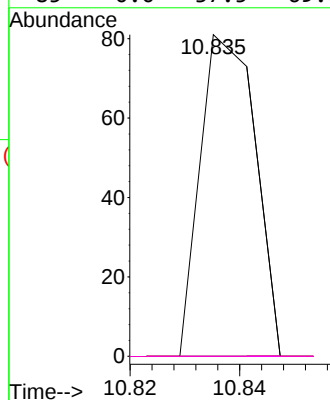
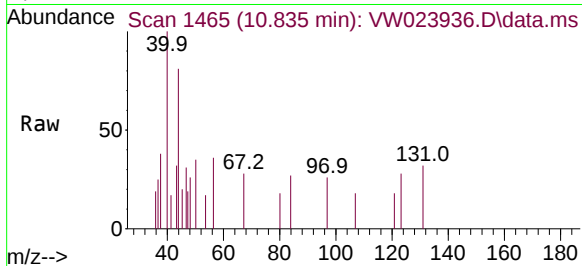




#45
1,1,2-Trichloroethane
Concen: 1.273 ug/L
RT: 10.835 min Scan# 1457
Delta R.T. 0.049 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

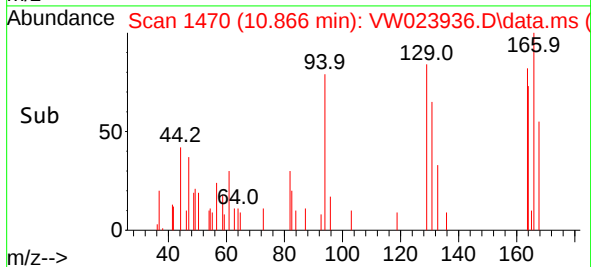
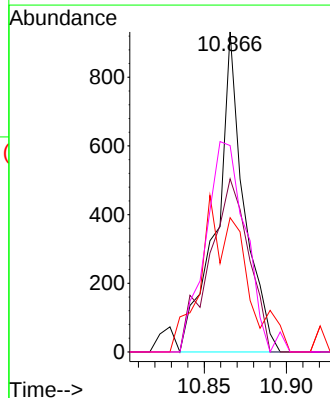
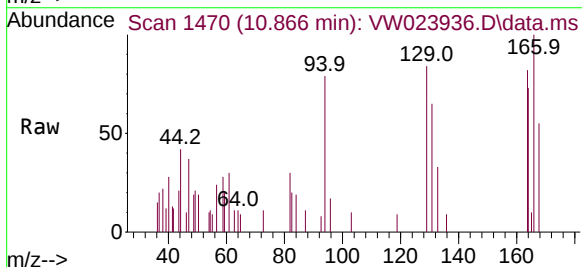
Instrument :
MSVOA_W
ClientSampleId :
F5C99

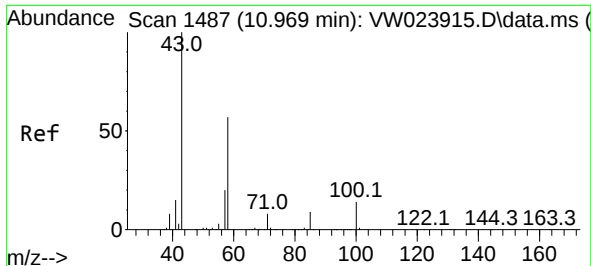
Tgt Ion: 97	Resp: 56
Ion Ratio	Lower Upper
97 100	
99 0.0	44.2 82.2#
83 0.0	59.8 111.0#
85 0.0	37.5 69.6#



#46
Tetrachloroethene
Concen: 26.555 ug/L
RT: 10.866 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt	Ion:164	Resp:	1088
Ion	Ratio	Lower	Upper
164	100		
129	54.1	72.4	134.5#
131	42.0	67.8	125.8#
166	64.5	88.9	165.1#

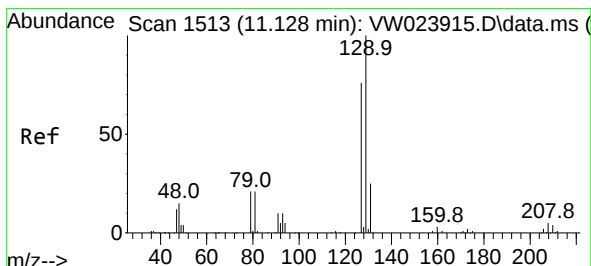
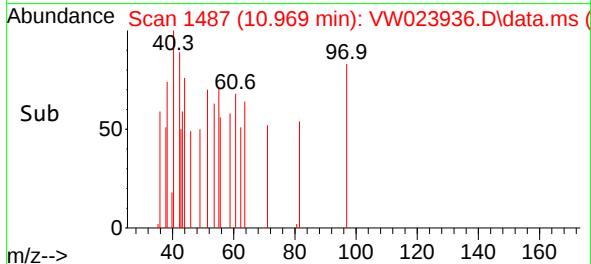
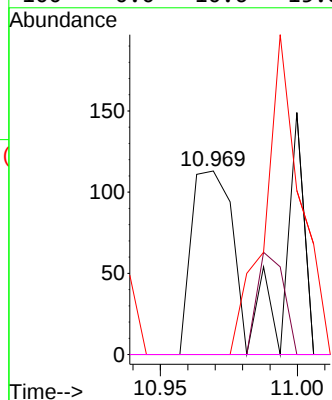
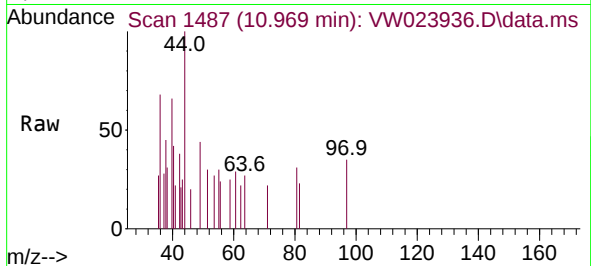




#48
2-Hexanone
Concen: 5.336 ug/L
RT: 10.969 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

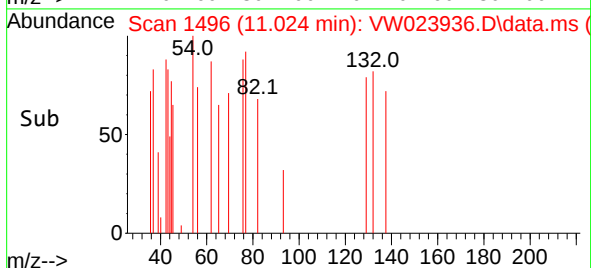
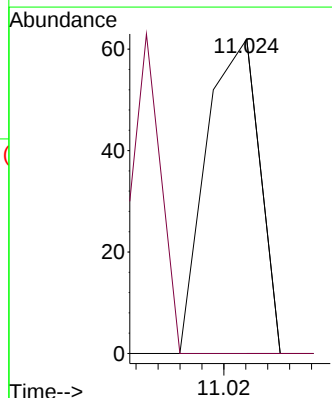
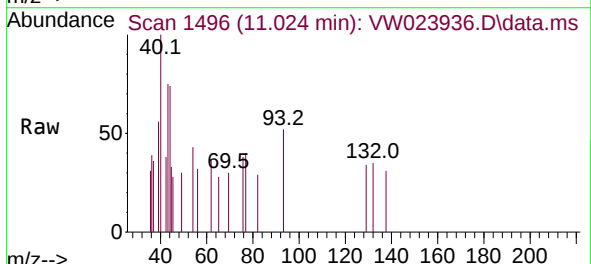
Instrument :
MSVOA_W
ClientSampleId :
F5C99

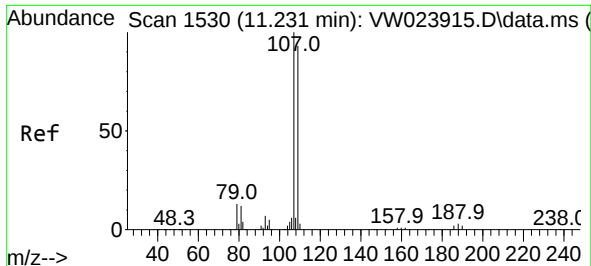
Tgt Ion: 43	Resp:	136
Ion Ratio	Lower	Upper
43	100	
58	0.0	41.6 62.4#
57	0.0	14.6 21.8#
100	0.0	10.6 15.8#



#49
Dibromochloromethane
Concen: 0.823 ug/L
RT: 11.024 min Scan# 1496
Delta R.T. -0.103 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion: 129	Resp:	42
Ion Ratio	Lower	Upper
129	100	
127	0.0	53.7 99.7#





#50

1,2-Dibromoethane

Concen: 1.041 ug/L

RT: 11.335 min Scan# 11

Delta R.T. 0.104 min

Lab File: VW023936.D

Acq: 20 Jul 2022 14:39

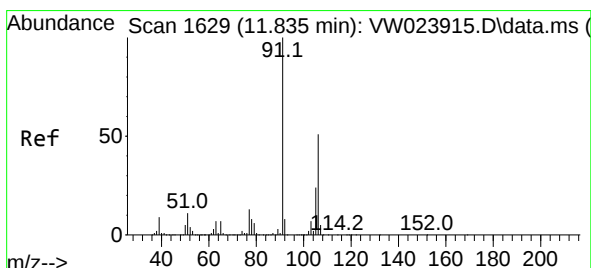
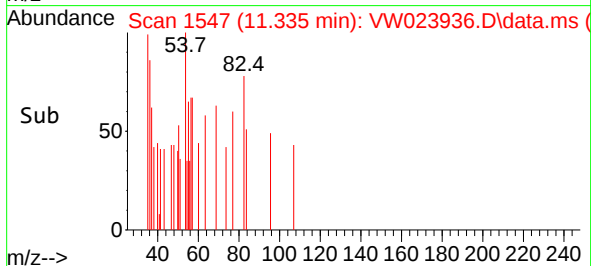
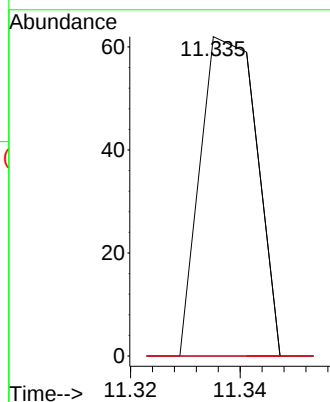
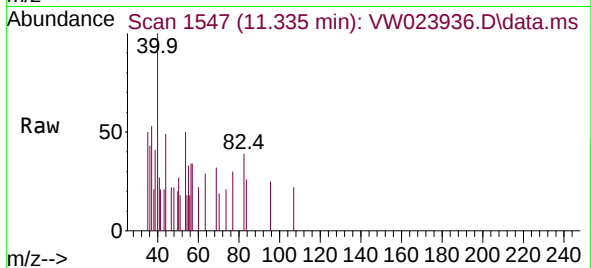
Instrument :

MSVOA_W

ClientSampleId :

F5C99

Tgt Ion:107	Resp:	44
Ion Ratio	Lower	Upper
107	100	
109	0.0	62.4 116.0#
188	0.0	2.3 3.5#



#53

m,p-Xylene

Concen: 0.601 ug/L

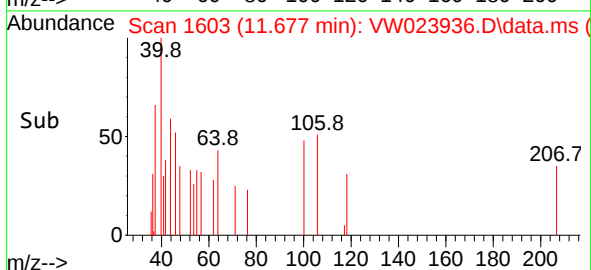
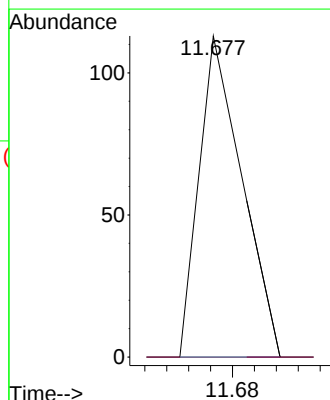
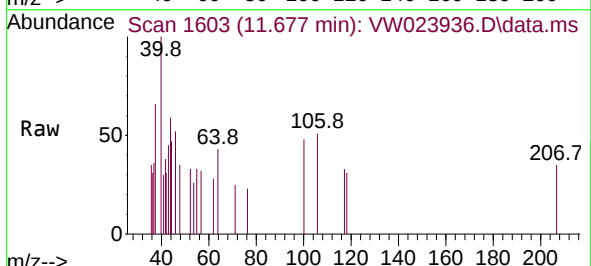
RT: 11.677 min Scan# 1603

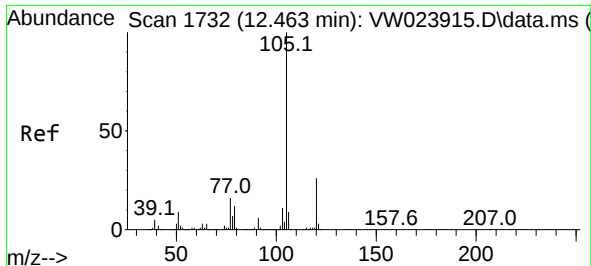
Delta R.T. -0.158 min

Lab File: VW023936.D

Acq: 20 Jul 2022 14:39

Tgt Ion:106	Resp:	61
Ion Ratio	Lower	Upper
106	100	
91	0.0	142.8 265.2#

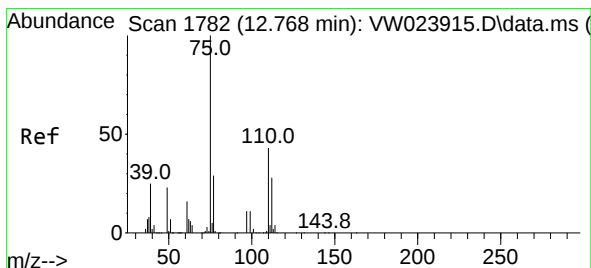
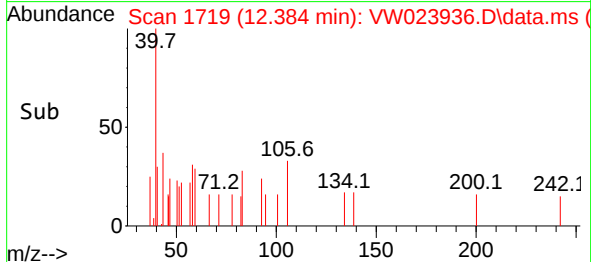
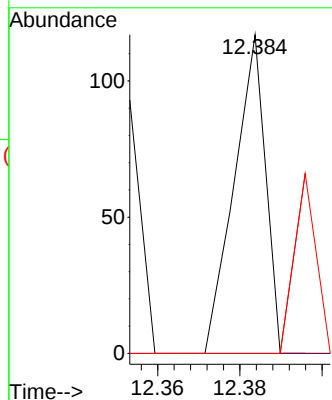
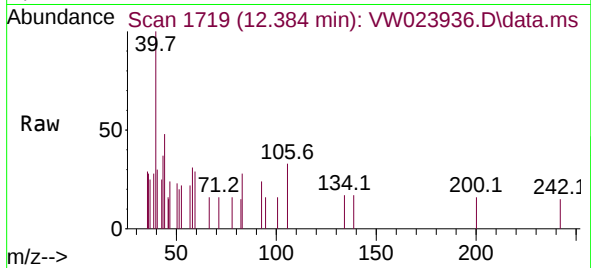




#60
Isopropylbenzene
Concen: 0.531 ug/L
RT: 12.384 min Scan# 1777
Delta R.T. -0.079 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

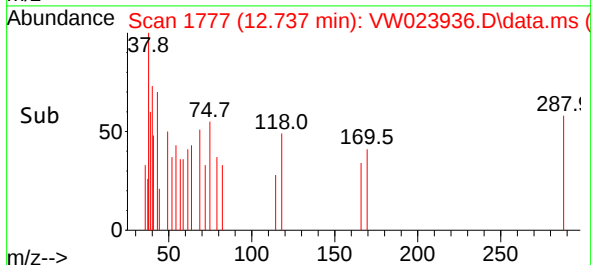
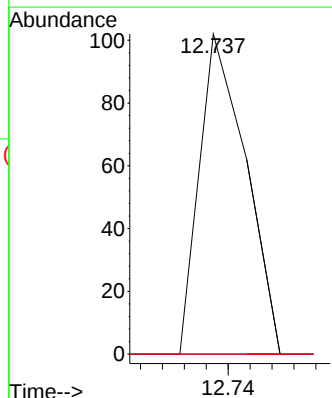
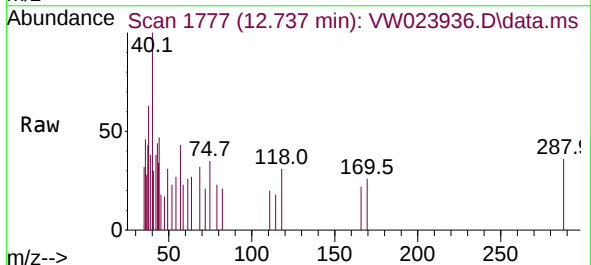
Instrument :
MSVOA_W
ClientSampleId :
F5C99

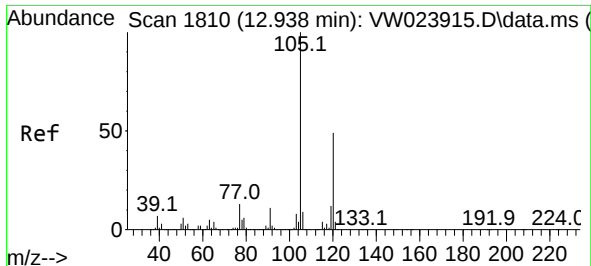
Tgt Ion:105 Resp: 62
Ion Ratio Lower Upper
105 100
120 62.9 20.7 31.1#
77 0.0 13.2 19.8#



#61
1,2,3-Trichloropropane
Concen: 3.145 ug/L
RT: 12.737 min Scan# 1777
Delta R.T. -0.030 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion: 75 Resp: 60
Ion Ratio Lower Upper
75 100
77 126.7 25.0 37.4#
110 0.0 31.9 47.9#





#62

1,3,5-Trimethylbenzene

Concen: 0.481 ug/L

RT: 13.975 min Scan# 1980

Delta R.T. 1.037 min

Lab File: VW023936.D

Acq: 20 Jul 2022 14:39

Instrument :

MSVOA_W

ClientSampleId :

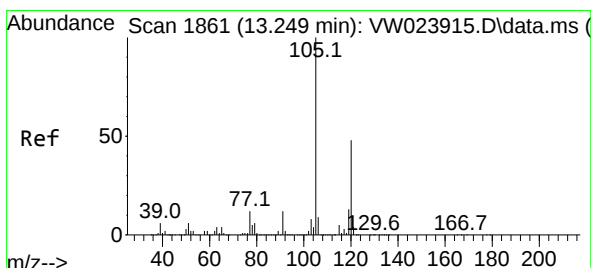
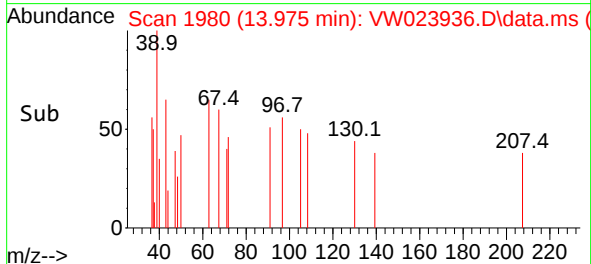
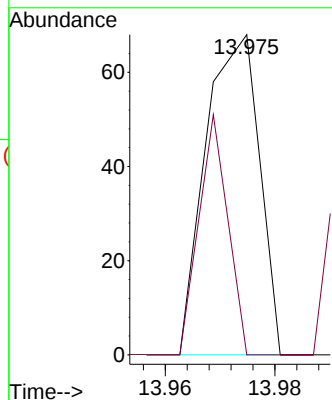
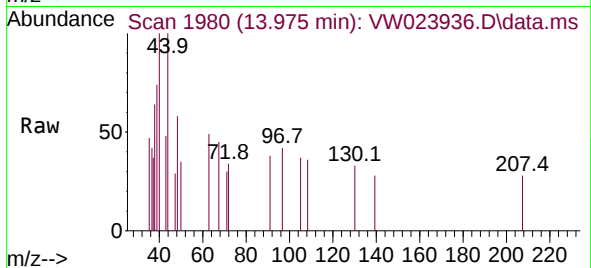
F5C99

Tgt Ion:105 Resp: 46

Ion Ratio Lower Upper

105 100

120 43.5 38.7 58.1



#63

1,2,4-Trimethylbenzene

Concen: 0.481 ug/L

RT: 13.975 min Scan# 1980

Delta R.T. 0.726 min

Lab File: VW023936.D

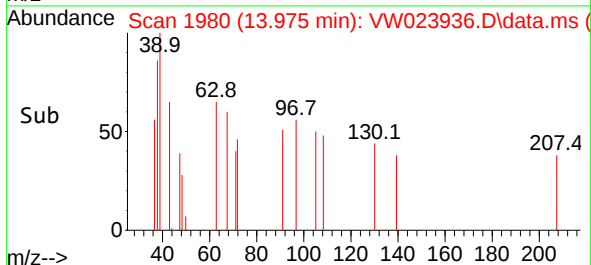
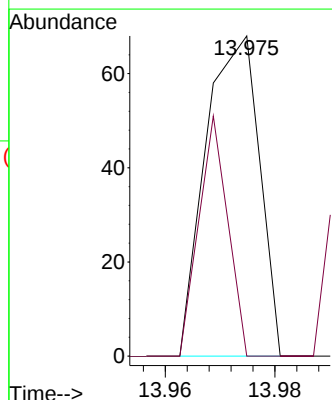
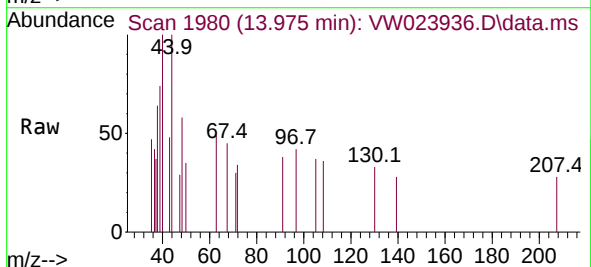
Acq: 20 Jul 2022 14:39

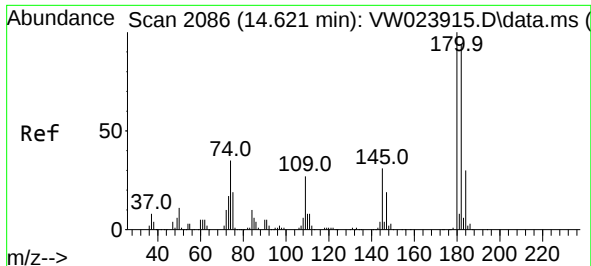
Tgt Ion:105 Resp: 46

Ion Ratio Lower Upper

105 100

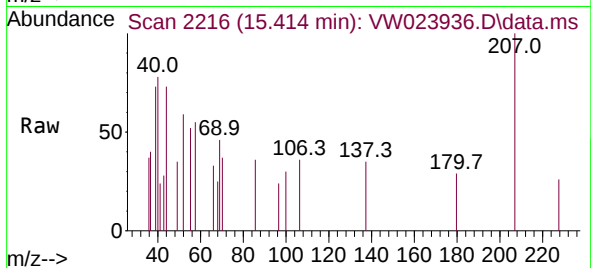
120 43.5 35.5 53.3



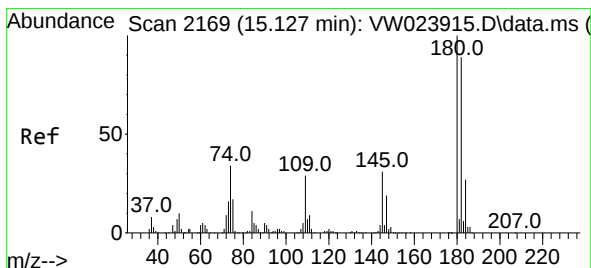
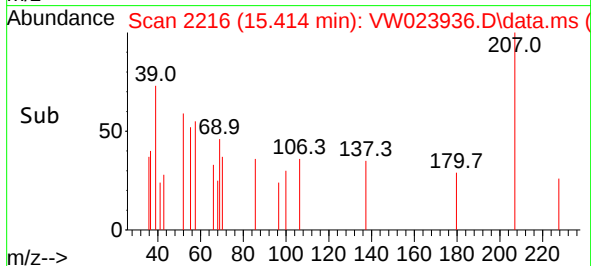
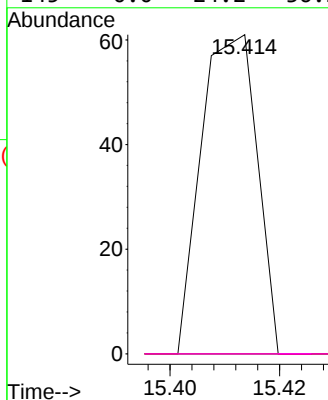


#69
1,3,5-Trichlorobenzene
Concen: 1.224 ug/L
RT: 15.414 min Scan# 2116
Delta R.T. 0.793 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Instrument :
MSVOA_W
ClientSampleId :
F5C99

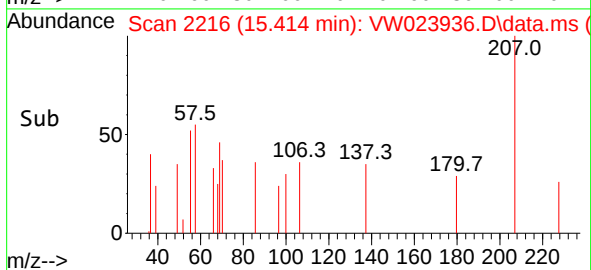
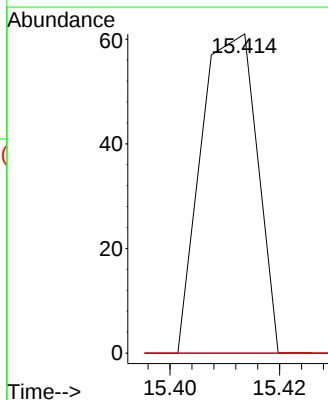
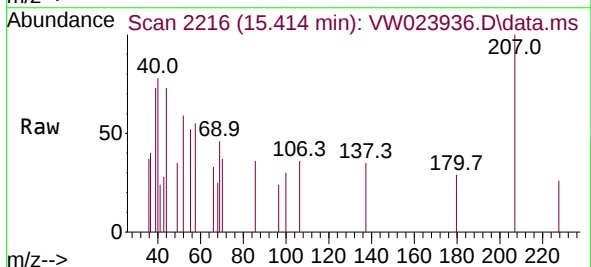


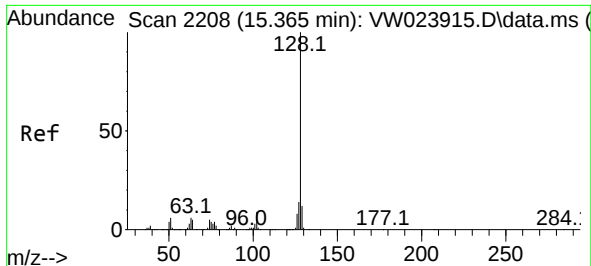
Tgt Ion:180 Resp: 43
Ion Ratio Lower Upper
180 100
182 160.5 70.2 105.2#
184 0.0 22.6 34.0#
145 0.0 24.2 36.2#



#70
1,2,4-trichlorobenzene
Concen: 1.586 ug/L
RT: 15.414 min Scan# 2216
Delta R.T. 0.287 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion:180 Resp: 43
Ion Ratio Lower Upper
180 100
182 0.0 77.5 116.3#
145 46.5 26.3 39.5#

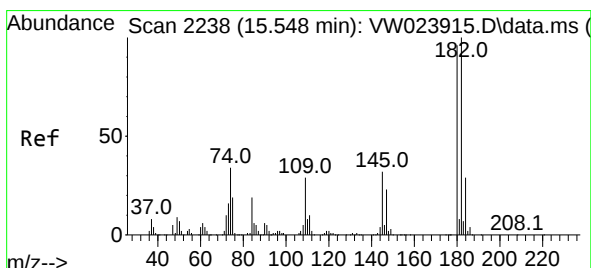
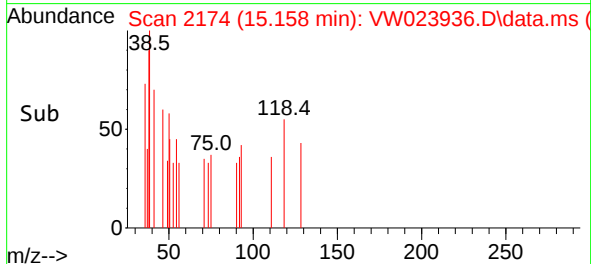
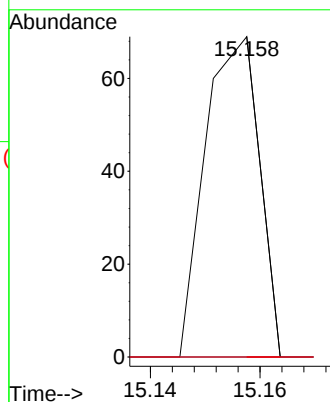
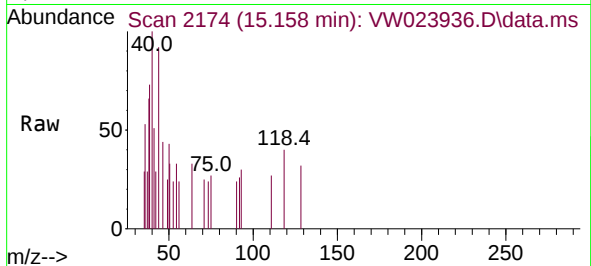




#71
Naphthalene
Concen: 0.808 ug/L
RT: 15.158 min Scan# 2116
Delta R.T. -0.207 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Instrument :
MSVOA_W
ClientSampleId :
F5C99

Tgt Ion:128 Resp: 47
Ion Ratio Lower Upper
128 100
127 102.1 11.0 16.4#
129 0.0 9.0 13.4#



#72
1,2,3-Trichlorobenzene
Concen: 1.701 ug/L
RT: 15.414 min Scan# 2216
Delta R.T. -0.134 min
Lab File: VW023936.D
Acq: 20 Jul 2022 14:39

Tgt Ion:180 Resp: 43
Ion Ratio Lower Upper
180 100
182 160.5 76.3 114.5#
145 0.0 27.8 41.6#

